ACCESSION NR: AP4041144 S/0020/64/156/004/0785/0788

AUTHOR: Takibayev, Zh. S.

TITLE: Emission of helium particles in interaction of high energy pion and unclean with complex nuclei

SOURCE: AN SSSR. Doklady*, v. 156, no. 4, 1964, 785-788

TOPIC TAGS: helium particle emission, high energy pion, high energy proton, pion complex nucleus interaction, proton complex nucleus interaction, nuclear emulsion irradiation

ABSTRACT: The authors describe the results of their investigation of the emission of α - particles with the kinetic energy > 100 Mev which were formed in interaction of pions and protons of high energy, with the nuclei of photoemulsions. Ilford G-5 photoemulsion piles were irradiated in Geneva with protons of 9 and 19.5 Bev and π - mesons of 7.5 and 17.5 Bev energy. There were about 12,000 proton-nucleus and 15,000 pion-nucleus interaction recorded. In 119 proton stars and 240 pion stars, helium particles were found with kinetic energy E_{kin} > 100 Mev. Among those, in 31 cases of proton-nucleus splitting and in 74 pion-nucleus splitting,

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ACCESSION NR: AP4041144 S/0020/64/156/004/0785/0788

E_{kin} was > 200 Mev. The splitting occurs in the heavy nuclei Ag and Br. The kinetic energy of α - particles was determined from the range and from multiple Coulomb scattering. The number of α - particles of energy E can be presented by $N(E) = \text{const.} \times E^{-2.6 \pm 0.4} dE$, with the same exponent for all values of primary particle energy. No change of the maximal energy of α - particles was noticed with the increase of proton energy, and only a small increase with the increase of pion energy. Orig. art. has: 3 figures and 2 tables.

ASSOCIATION: Kazakhskiy gosudarstvenny*y universitet, im. S. M. Kirova (Kazakh State University)

SUBMITTED: 28Feb64 ENCL: 00

SUB CODE: NP NO REF SOV: 006 OTHER: 004

Card 2/2

L 2085-65 EWT(m) DIAAP

ACCESSION NR: AP4042204 S/0020/64/157/002/0328/0330

AUTHORS: Takibayev, Zh.S. (Academician AN KazSSR); Usik, P.A.; San'ko, L.A.

TITLE: Generation of heavy particles and their role in the explanation of the experimental results in the region of ultrahigh energies

SOURCE: AN SSSR. Doklady*, v. 157, no. 2, 1964, 328-330

TOPIC TAGS: heavy particle generation, ultrahigh energy, two maxima, nucleon nucleon collision, nucleon nucleus collision

ABSTRACT: In the nucleon-nucleon, or nucleon-nucleus collisions at ultrahigh energy (10^{12}ev) recorded in nuclear photoemulsions which were exposed to cosmic rays at high altitudes, sometimes two maxima are observed in the angular distribution of the showers. The present paper points out the shortcomings of the fire-ball model (the formation of two centers of generation.(See G.Coconi, Phys. Rev. 111, 1699 (1958)). This opinion is supported by the analysis of a large number of showers. It is suggested that as a result of nucleon-nucleon collision, an excited system is produced which disintegrates

Card 1/2

L 2085-65

ACCESSION NR: AP4042204

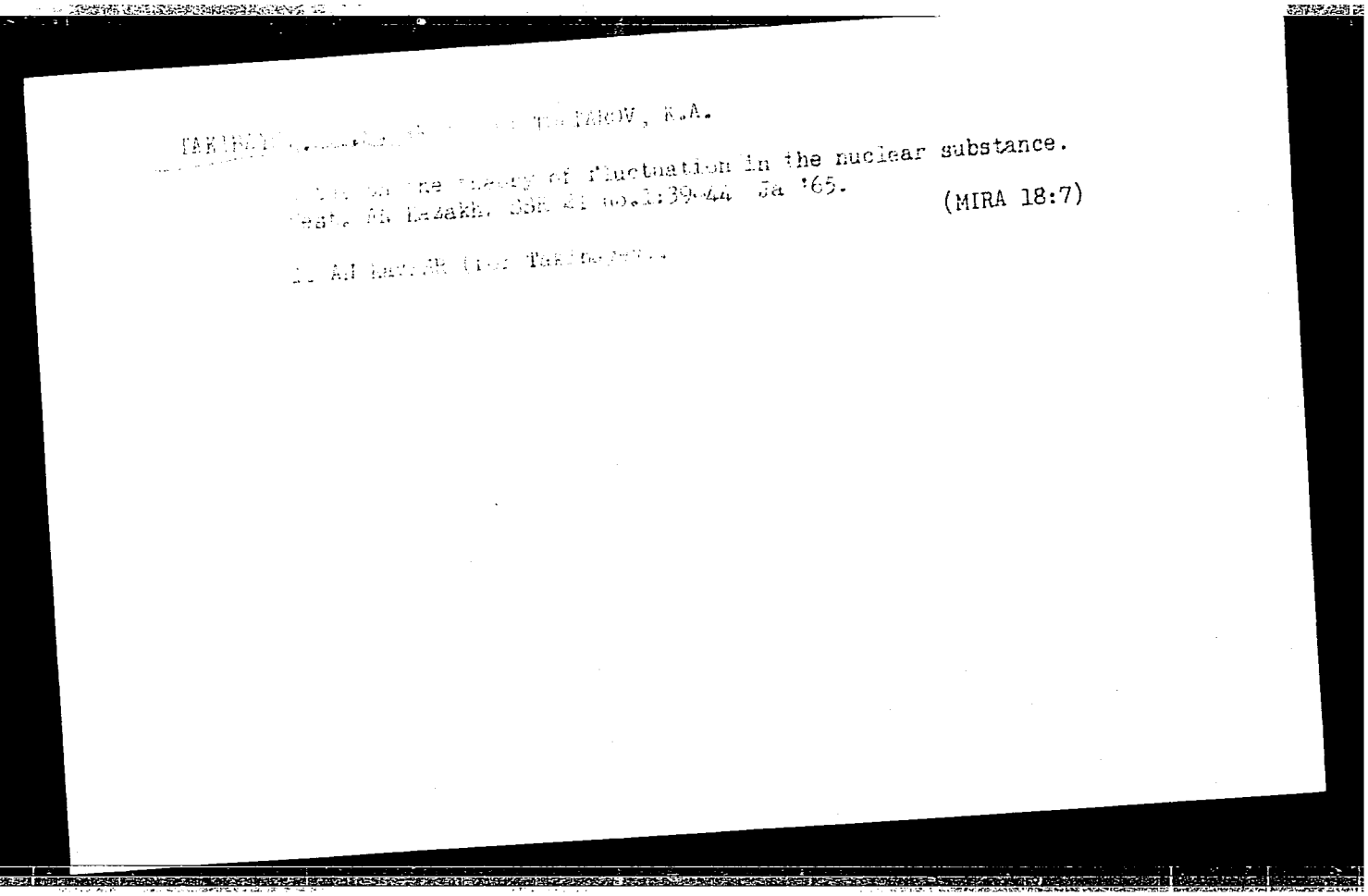
into pions, K-mesons, resonance particles, and Caryon pairs. Orig. art. has: 4 figures

ASSOCIATION: Institut idernoy fiziki Akademii nauk, SSSR (Institute of Theoretical Physics, Academy of Sciences SSSR)

SUBMITTED: 22Oct63 ENCL: 00

SUB CODE: NP NR REF SOV: 008 OTHER: 009

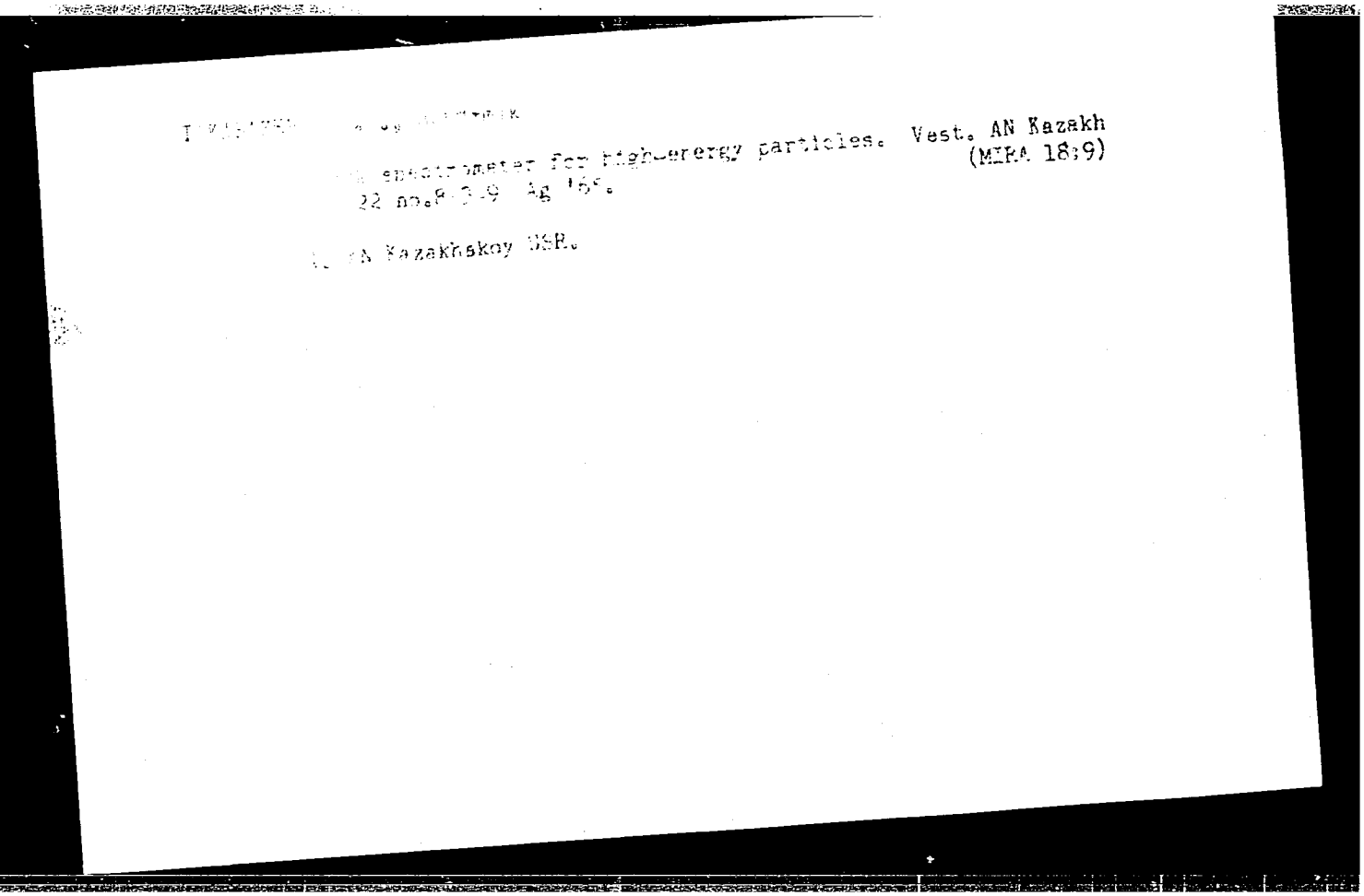
Card 2/2



TAKIBAYEV, K.A.

[illegible] the theory of fluctuation in the nuclear substance.
Trudy Fiz. in-ta Akad. nauk Kazakh. SSR 21 [i.e.1]:39-44 Ja '65.
(MIRA 18:7)

1. Akademiya nauk Kazakhskoy SSR.



[illegible] spectrometer for high-energy particles. Vest. AN Kazakh
22 no.8:3-9 Ag '66. (MIRA 18:9)

1. AN Kazakhskoy SSR.

BOKOV, S.C.; VINITSKIY, A.Kh.; TAKIBAYEV, Zh.S.

Dependence of the transverse momentum of π-mesons on the angle of emission. (MIRA 18:7)
IAd. fiz. 1 no.1:148-151 Ja '65.

1. Institut yadernoy fiziki AN KazSSR.

L 26778-66 EWT(m)

ACC NR: AP6017443 SOURCE CODE: UR/0361/65/000/002/0003/0009

43

AUTHOR: Kobzev, V. A.; Takibayev, Zh. S.; Shalagina, Ye. V.

B

ORG: none

19

TITLE: Effect of the cascade process on the output of helium isotopes during the interaction of 9 Bev primary protons with the nuclei of a photoemulsion

SOURCE: AN KazSSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, no. 2, 1965, 3-9

TOPIC TAGS: isotope, proton interaction, alpha particle, photographic emulsion, angular distribution, nucleon

ABSTRACT: The article is a description of an experiment conducted to explain the mechanism of the formation of α-particles with a kinetic energy of $\geqslant$100 Mev which are given off when 9 Bev protons interact with the nuclei of a photoemulsion. It was proposed that α-substructures exist inside a nucleus which act like free α-particles when they interact with nucleons. Descriptions of the various nuclear particles are presented on the basis of the above assumptions, together with results from analysis of 69 stars formed under the above conditions. The angular distributions of the tracks are given, together with explanations for deviations from other works. The conclusion is drawn that the emission of

2

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L 26778-66

ACC NR: AP6017443

all Λ-particles from nuclei cannot be explained by quasielastic scattering of cascade protons in the internuclear Λ-substructures. To fully explain the role of the Λ-particle cascade, further investigation is required. In particular, Λ-particle formation will be studied during interaction of 19.5 Bev protons with the atomic nuclei of a photoemulsion. Orig. art. has: 4 figures and 1 table. [JPRS]

SUB CODE: 20, 18 / SUBM DATE: 22Jan64 / ORIG REF: 009 / OTH REF: 007

Card 2/2 fla

L 26769-66 EWT(m)

ACC NR: AP6017445 SOURCE CODE: UR/0361/65/000/002/0046/0050

AUTHOR: Takibayev, Zh. S.; Tleubergenova, G. A.; Lazareva, T. P.

ORG: none

TITLE: Formation of high energy fragments under the influence of 7.5 Bev pi-mesons

SOURCE: AN KazSSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, no. 2, 1965, 46-50

TOPIC TAGS: pi meson, nucleon, particle interaction, photographic emulsion, particle accelerator, angular distribution

ABSTRACT: In this article are presented the results from analysis of 101 interactions with fragments $z \geq 3$ and an energy of 5 Mev per nuoleon, in which there were 58 Li, 22 Be, and 11 B Fragments. To obtain these high energy cases a photoemulsion layer of the NIKFI (All-Union Scientific Research Institute for Motion Pictures and Photography)-R 400μ type 10X20 cm in area was bombarded with 7.5 Bev π-mesons in a synchrophasotron of the Joint Institute of Nuclear Research. Energy, charge, and angular distribution curves for the fragments are presented and comparisons made with theoretical calculations based on vaporization, fission, etc. The correlation between the asymmetry of the fragments and cascade particles and, especially, the observation of an increase in the asymmetry of black tracks in stars with fragments by comparison with the assymetry in stars without fragments leads to the conclusion that the cascade process is primarily responsible for the formation of high energy fragments. Orig. art. has: 4 figures and 3 tables. [JPRS]

SUB CODE: 20 / SUBM DATE: 17Nov64 / ORIG REF: 010 / OTH REF: 003

Card 1/1 ala

L 26782-66 EWT(1)/EWT(m)/T/FSS-2 IJP(c) JD

ACC NR: AP6017446 SOURCE CODE: UR/0361/65/000/002/0051/0059

AUTHOR: Takibayev, Zh. S.; Tleubergenova, G. A.; Lazareva, T. P.; Morozova, P. V.; Kazanskaya, A. P.

ORG: none

TITLE: Helium particles emitted during the collision of 17.5 Bev pi-mesons with the nuclei of a photoemulsion

SOURCE: AN KazSSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, no. 2, 1965, 51-59

TOPIC TAGS: pi meson, photographic emulsion, helium

ABSTRACT: The article is a discussion of an experiment conducted for the investigation of the emission of multi-nucleon particles from splitting of nuclei under the influence of high energy π-mesons. In the experiment the interaction of primary π-mesons 17.5 Bev in energy with the nuclei of a photoemulsion to form helium particles with a kinetic energy greater than 100 Mev is studied. An Ilford-G5 emulsion 600μ in thickness was used. Distributions and characteristics of the particles are presented. The significant increase in the average number of grey tracks (~ 25%) for stars with helium particles by comparison with splits where no energy helium particles were present, the constancy of the energy spectrum of the helium particles during significant

Card 1/2

L 26782-66

ACC NR: AP6017446

0

variation of the energy of the primary π-mesons, the large assymmetry and close correspondence of the helium particle half-angles to those values for the grey tracks - all indicate the influence of the cascade process. However, other significant facts stated are not reconcilable to the cascade model and indicate the presence of other factors in the formation of high energy helium particles. Orig. art. has: 8 figures and 4 tables. [JPRS]

SUB CODE: 20 / SUBM DATE: 17Nov64 / ORIG REF: 010 / OTH REF: 005

Card 2/2

L 22105-66 EWT(m)/T

ACC NR: AP6012937 SOURCE CODE: UR/0120/65/000/002/0063/0064

AUTHOR: Boos, E. G.; Pavlova, N. P.; Takibayev, Zh. S.; Tursunov, R. A.

ORG: Institute of Nuclear Physics, AN KazSSR (Institut yadernoy fiziki AN KazSSR)

TITLE: Determination of the nature of secondary particles by the photo-emulsion method in the area of high energies

SOURCE: Pribory i tekhnika eksperimenta, no. 2, 1965, 63-64

TOPIC TAGS: pi meson, proton, K meson, meson, high energy particle

ABSTRACT: In order to determine the nature of secondary particles in the area of high energies, the author analyzed secondary particles from three-ray p-n interactions formed by protons with an impulse of 19.8 gev. The traces of the incident protons provided independent confirmation of the correctness of the method used for identification of the secondary particles. The relations between the number of p-n mesons, pi mesons, K-mesons, and protons in various areas of $p\beta c$ were found: $2.5 < p\beta c < 5$ gev - $N_\pi : (N_k + N_p) = 90:10$; $5 \text{ gev} < p\beta c < 20$ gev -- $N_\pi : N_k : N_p = 47:10:43$.

It is shown that the pi-mesons can be separated from the heavier particles in the area of $p\beta c$ between 2.5 and 5 gev and that in the area between 5 and 20 gev the portion of K-mesons can also be evaluated. The number of particles of various types is evaluated as follows for three-ray p-n interactions on the basis of preliminary data:

Card 1/2 UDC: 539.1.073.7

2.5 gev $< p\beta c <$ 5 gev $N_\pi : (N_k + N_p) = 90:10$

5 gev $< p\beta c <$ 20 gev $N_\pi : N_k : N_p = 47:10:43$

2.5 gev $< p\beta c <$ 20 gev $N_\pi : N_k : N_p = 62:6:32$

These relations indicate the considerable reduction of pi-mesons with increasing energy and the corresponding increase in K-mesons and protons. The authors thank the workers of the Department of High energy, IYaF, AN KazSSR, for participating in processing and discussing the experiments. Further thanks is made to the Emulsion Committee, TsYeRN for making the emulsion stacks available. Orig. art. has: 2 figures. [JPRS]

SUB CODE: 20 / SUBM DATE: 17Feb64 / ORIG REF: 006 / OTH REF: 001

L 23758-66 EWT(m)/T

ACC NR: AP6014809 SOURCE CODE: UR/0367/65/001/001/0148/0151

AUTHOR: Boos, E. G.; Vinitskiy, A. Kh.--Vinitsky, A.; Takibayev, Zh. S.--Takibaev, J.

ORG: Institute of Nuclear Physics, AN KazSSR (Institut yadernoy fiziki AN KazSSR) 16 B

TITLE: Investigation of dependence of lateral momentum of pi-mesons on escape angle 19

SOURCE: Yadernaya fizika, v. 1, no. 1, 1965, 148-151

TOPIC TAGS: pi meson, particle interaction

ABSTRACT: The distribution of the lateral momentum of pi-mesons as a function of their escape angle is investigated. Use is made of 1536 pi-mesons produced in pi N-interactions by an energy of 7.5 BEV. It is shown that the existing dependence of $P_\perp$ on the escape angle can be explained by the influence of the energy-momentum conservation law. The authors study the conditions under which the assumption $P_\perp$ = constant can be used to find the kinematic properties of the secondary particles. The authors thank O. V. Gunenkov for his assistance with the calculations. Orig. art. has: 2 figures and 4 formulas. [Based on authors' Eng. abst.] [JPRS]

SUB CODE: 20 / SUBM DATE: 01Jul64 / ORIG REF: 007 / OTH REF: 002

2

Card 1/1 ULR

L 26781-66 EWT(m)/T

ACC NR: AP6017447 SOURCE CODE: UR/0361/65/000/002/0070/0073

AUTHOR: Botvin, V. A.; Takibayev, Zh. S.; Sharapov, K. V.

ORG: none

TITLE: Investigation of the inelastic interaction of antiprotons with neutrons at 3 Gev/c

SOURCE: AN KazSSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, no. 2, 1965, 70-73

TOPIC TAGS: antiproton, neutron, neutron interaction, inelastic interaction, meson, pi meson, particle track

ABSTRACT: In this article are presented the experimental results from inelastic $\bar{P}n$-interactions with a 3 Gev/c impulse using a 600μ layer of Ilford-G5 emulsion in a proton synchrotron. 134 cases of interaction of a primary antiproton with quasi-free neutrons were analyzed. Data are presented without distinguishing between the two processes possible: anihilation and creation of mesons. The distribution of the inelastic $\bar{P}n$-interactions with respect to the number of rays is presented: the average number of protons and antiprotons per interaction for a $\bar{P}n$-event is 0.39 ± 0.07. Conclusions are drawn that the fraction of cases of creation of mesons is close to the same for $\bar{P}p$ and $\bar{P}n$-interactions in the investigated energy range. It is also noted that in several 5 to 7 ray cases a proton track was observed, indicating creation

Card 1/2

L 26781-66

ACC NR: AP6017447

reactions. The pulse distribution of the pi-mesons produced reaches a maximum in the region of 0.1-0.3 Gev/c and drops sharply at high energy ranges. Orig. art. has: 4 figures and 1 table. [JPRS]

SUB CODE: 20 / SUBM DATE: 29Dec64 / ORIG REF: 003 / OTH REF: 004

Card 2/2

L 28971-66 EWT(m)

ACC NR: AP6019131 SOURCE CODE: UR/0031/65/000/008/0003/0009

AUTHOR: Takibayev, Zh. S. (Academician AN KazSSR)

ORG: none

TITLE: Spark spectrometer for high-energy particles

SOURCE: AN KazSSR. Vestnik, no. 8, 1965, 3-9

TOPIC TAGS: high energy particle, ionization chamber, spark chamber, scintillator

ABSTRACT: After reviewing the difficulties involved in determining the energy of high-energy particles ($>10^{11}$ ev) from track curvatures with ionization chambers, movable films, and other methods, the author proposes a spectrometer design consisting of several spark chambers, Fe absorbers, and scintillators (see enclosure). The use and operation of the spectrometer are discussed in extensive detail. Also, variations in configuration are proposed: e.g., one in which spark chambers, scintillators, and Fe absorbers are alternated in a stack. In this design the plastic scintillators or the vessels containing the scintillation liquid have a special shape to compensate for the emmitted light with respect to the photomultipliers.

Card 1/2

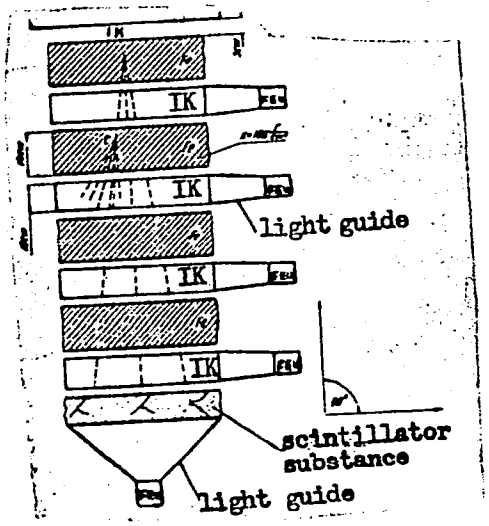


Figure 1. IK are the spark chambers; (10 cm deep); Fe, absorbers (14 cm deep); small boxes marked FEU are photomultipliers at the ends of light conductors. C marks the origin of a shower. Brightness is measured directly by the photomultipliers. The dotted layer is the scintillator. Viewing is at two positions at 90 degrees.

The author expresses thanks to his colleagues Yu. T. Lukin, N. Nurgozhin, and V. M. Ivanenko, who took part in the discussion of the operations. Orig. art. has: 4 figures. [JPRS]

SUB CODE: 20 / SUBM DATE: none / ORIG REF: 005 / OTH REF: 002

ACC NR: [illegible]

AUTHOR: [illegible]; [illegible]; [illegible]; [illegible]; [illegible]

ORG: [illegible]

TITLE: [illegible] disintegration with emission of [illegible] in relation to diffusion problems

SOURCE: Yadernaya fizika, v. 3, no. 5, 1966, [illegible]

TOPIC TAGS: nuclear emulsion, angular distribution, proton

ABSTRACT: The emission of helium nuclei with kinetic energies in the 1[illegible]-3500 MeV region by stars produced by 10-20 GeV protons in photoemulsion is investigated. It is shown that ~90% of the double-charged particles are emitted in the disintegration of heavy photoemulsion nuclei. It is noted that the cross-section of the investigated particles and their energy and angular distributions do not depend on the incident proton energy. The average numbers of thin, gray, and black tracks are compared in stars with and without helium, and the angular distributions of thin, gray, and black tracks in these interactions are obtained. The conclusion is made that the emission of fast helium nuclei is connected with a cascade process inside the nucleus. Orig. art. has: 5 figures, 2 formulas and 5 tables. [Based on authors' Eng. abst.]
[JPRS: 36,712]

SUB CODE: 20, 12 / SUBM DATE: 17Jul65 / ORIG REF: 015 / OTH REF: 013

Card 1/1 [illegible]

0919 1257

ACC NR: AP7007077 SOURCE CODE: UR/0048/66/030/010/1602/1603

AUTHOR: Denikayev, R. Z.; Yemel'yanov, Yu. A.; Lukin, Yu. T.; Takibayev, Zh. S.; Khomenko, G. S.

ORG: none

TITLE: Probability of the recording of "Stars" by an ionization calorimeter /Paper presented at the All-Union Conference on Cosmic Radiation Physics, Moscow, 15-20 Nov 1965/

SOURCE: AN SSSR. Izvestiya. Seriyz fizicheskaya, v. 30, no. 10, 1966, 1602-1603

TOPIC TAGS: calorimeter, astrophysics, star, neutron, proton, alpha particle, deuteron

SUB CODE: 08

ABSTRACT: Upon interaction of nucleus-reactive particles with matter, there is not only formation of new particles but also fission of nuclei of the target, which is accompanied by the emission of low-energy neutrons, protons, deutrons, and α - particles: i. e., formation of so-called "starts." The ionization produced by strongly ionizing particles of the stars is added to that due to electrons of the shower and measured, together with the latter, in an ionization calorimeter. On the basis of experimental data obtained on an instrument of the ionization calorimeter type, in which iron was used as an absorber, the contribution of stars to ionization was estimated at $\sim$ 10% of the ionization due to the nuclear shower. Orig. art. has: 2 figures and 3 formulas. /JPRS: 39,658/

Card 1/1

ACC NR: AP7009590 SOURCE CODE: UR/0020/66/170/005/1041/1043

AUTHOR: Boos, E. G. (Academician AN KazSSR); Takibayev, Zh. S.; Tursunov, R. A.

ORG: Institute of Nuclear Physics, AN KazSSR (Institut yadernoy fiziki AN KazSSR)

"Investigation of Diffraction Generation of π^--Mesons by Protons with an Energy of 20 Gev""

Moscow, Doklady Akademii Nauk SSSR, Vol 170, No 5, 11 Oct 66, pp 1041-1043

Abstract: Coherent generation of π^--mesons in three-ray events arising in an Ilford G-5 emulsion under the action of protons with an impulse of 1913 Gev/s was subjected to further study (cf. E. G. Boos, N. P. Pavlova, and R. A. Tursunov, Preprint P-2623, Joint Institute of Nuclear Research, Dubna, 1966). Secondary particles in 179 three-ray interactions over a length of 2927 m were identified. The distribution of the events with respect to angular criteria δ was determined. The distribution of 30 events with $\delta < 0.6$ with respect to the square of the four-dimensional impulse q^2 was 0.14 ± 0.03 $(Gev/s)^2$ for the 30 events and 0.15 ± 0.04 $(Gev/s)^2$ for 13 events among them for which reliable identification of the secondary particles was made. The distribution with respect to the transverse impulse $P_\perp$ carried away by the $(p\pi^-\pi^-)$ system was determined. The average value of $P_\perp$ was 0.13 ± 0.03 gev/s $(0.17 \pm 0.05$

Card 1/2 UDC: 539.12 + 539.107.37

0930 11.27.

ACC NR: AM7009590

Gev/c for 13 events), which was considerably smaller than the value of 0.30 ± 0.03 Gev/c found for three-ray pn interactions. Determination of the distribution of the three-particle system with respect to the effective mass M indicated that the average value of M was 1.61 ± 0.30 Gev for all events and 1.63 ± 0.45 for 13 events. The statistical reliability of the data obtained was insufficient to permit a definite conclusion as to whether the formation of T^{+}-mesons was of the resonance type. The authors thank O. V. Gunenkovaya, K. G. Zaytsev, T. I. Mukhordovaya, and A. V. Kholmetskovaya, who took part in the measurements and processing of the data, and also A. Kh. Vinitskoy for taking part in the discussion of the results. Orig. art. has: 4 figures and 2 formulas. [JPRS: 40,050]

TOPIC TAGS: pi meson, proton

SUB CODE: 20

Card 2/2

DIKLIC, Dragomir; TEDESKI, Vojka; TAKIC, Cveta; JORGACEVIC, Dragisa

Diagnostic value of Takata-Ara and cerebrospinal fluid tryptophan reactions in early diagnosis of tuberculous meningitis. Srpski arh. celok. lek. 89 no.2:203-207 F '61.

1. Klinika za infektivne bolesti Medicinskog fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Milorad Milosevic.

(TUBERCULOSIS MENINGEAL csf)

DIKLIC, Dragomir; TAKIC, Cveta

Our experience with the treatment of tuberculous meningitis. Srpski arh. celok. lek. 89 no.4:437-443 Ap '61.

1. Klinika za infektivne bolesti Medicinskog fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Milorad Milosevic.

(TUBERCULOSIS MENINGEAL ther)

MOCIC, Mirjana; VUCKOVIC-KALENIC, Ksenija; TAKIC, Cveta

Clinical significance of the presence of pathogenic Staphylococci in measles. Srpski ~~arh~~. celok. lek. 90 no.2:125-132 F '62.

1. Klinika za Infektivne bolesti Medicinskog fakulteta Univerziteta u Beogradu Upravnik ~~doc~~. dr. Mihailo Nikolic.
(MEASLES microbiol)
(STAPHYLOCOCCAL INFECTIONS diag)

S

MILOSEVIC, Milorad; VASOJEVIC, Stevan; TAKIC, Cveta; PERISIC, Zivadin; JORGACEVIC, Dragisa

On a case of necrotic phlegmon of the neck and thorax. Srpski arh. celok. lek. 90 no.2:203-206 F '62.

1. Klinika za infektivne bolesti Medicinskog fakulteta Univerziteta u Beogradu Upravnik: prof. dr. Milorad Milosevic.
(NECK dis) (THORAX dis) (PHLEGMON case reports)

S

MESTR[illegible]; POS[illegible]; SCER[illegible]; POPOVIC, Jelisaveta; [illegible]

Serological reactions in infectious mononucleosis. Srpski arh. celok. lek. 82 no.9:821-827 S '54.

1. Mikrobiološki institut Medicinskog fakulteta Univerziteta u Beogradu (Upravn.k: prof. dr. Milutin Djurisic); Klinika za infektivne bolesti Medicinskog fakulteta Univerziteta u Beogradu (Vd. upravnika: prof. dr. Mihajlo Nikolic).

[illegible], Marijana, prof. dr.; [illegible], Miomir, doc. dr.; [illegible], Vojislav, dr.; ILIC, Vladimir, dr.; [illegible], Dragisa, dr.; [illegible], Sveta, dr.; MITROVIC, Jasmila, dr.

Meningitis and meningoencephalitis caused by enteroviruses from the ECHO and Coxsadkie group. Med. glas. 19 no.8/9:180-184 Ag-S '65.

1. Klinika za infektivne bolesti Medicinskog fakulteta univerziteta u Beogradu (Upravnik: prof. dr. M. Nikolic) i Zavod za zdravstvenu zastitu SR Srbije (Direktor: prof. dr. J. Cekic).

ACC NR: AP6029578 SOURCE CODE: YU/0015/65/000/08-/0180/0184

AUTHOR: Mocic, Mirjana (Professor; Doctor); Kecmanovic, Miomir (Docent; Doctor); Suvakovic, Vojisav (Doctor); Ilic, Vladimir (Doctor); Jorgacevic, Dragisa (Doctor); Takic, Cveta (Doctor); Mirkovic, Radmila (Doctor)

ORG: Infectious Disease Clinic, Medical Faculty, University/headed by Professor, Doctor M. Nikolic/, Belgrade (Klinika za infektivne bolesti Medicinskog fakulteta univerziteta); Institute of National Health SR Serbia/directed by Professor, Doctor Cekic/(zavod za zdravstvenu zastitu SR Srbije)

TITLE: Meningitis and meningo-encephalitis caused by enteroviruses of the ECHO and coxsackie groups

SOURCE: Medicinski glasnik, no. 8-9, 1965, 180-184

TOPIC TAGS: encephalitis, epidemiology, virology, encephalology

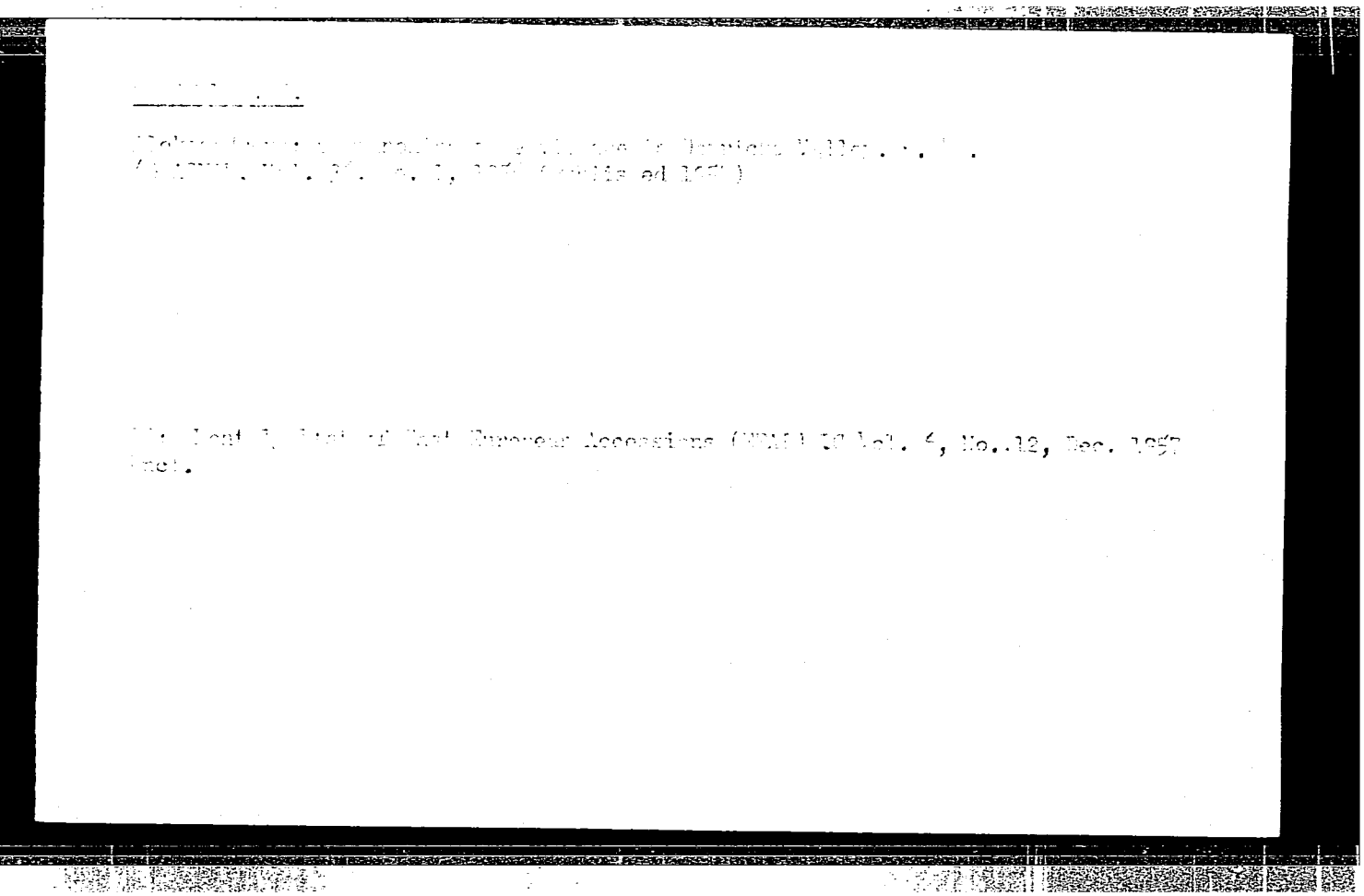
ABSTRACT: Comprehensive data on the epidemics of ECHO (mostly $ECHO_4$, some $ECHO_9$) and several types of Coxsackie viruses in Yugoslavia in 1962 and succeeding summers: symptoms, clinical course, CSF changes; other epidemiologic data. Only in 5 out of 114 patients was the disease considered relatively severe. Orig. art. has: 2 figures and 4 tables. [JPRS: 36,599]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 004

VASOJEVIC, S., doc.dr; DIKLIC, D., dr; TEDESKI, B., dr; TAKIC, S., dr; STANKOVIC, M., dr; CIRIC, D., dr; PETROVIC, M., dr.

Our experience with scarlet fever in 1957. Med.glasn. 14 no.7/8: 387-390 Jl-Ag '60.

1. Klinika za infektivne bolesti Medicinskog fakulteta u Beogradu (Upravnik: prof. dr M.Milosevic)
(SCARLET FEVER epidemiol)



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[illegible] in the competition s announced by the Committee on [illegible] and Architecture. p. 4.

[illegible], (Ministerstvo na stroezhite) Sofia, Bulgaria. Vol. 6, no. [illegible], 1959.

[illegible] List of Post-Congress Accessions (PAL), LC, Vol. [illegible], no. 12, [illegible]
Vol.

TAKIROV, Musatay; IOFFE, S.Ye., redaktor; ZAV'YALOV, G.P., redaktor; OYSTRAKH, V.G., tekhnicheskiy redaktor

[The party group in the struggle for technical progress] Partiinaia gruppa v bor'be za tekhnicheskii progress. Alma-Ata, Kazakhskoe gos. izd-vo, 1956. 18 p. (MLRA 9:10)

1. Mashinist ugol'nogo kombayna, partgrupporg shakhty No.1-bis tresta Kirovugol' kombinata "Karagandaugol'" (for Makirov)
(Communist Party of the Soviet Union--Party work)
(Coal mines and mining)

[redacted]

[redacted] competition in school. p. 646

[redacted] KOOL. [redacted] Tallinn, Estonia
Vol. 17, no. 9, Sept. 1959

[redacted] List of East European Accessions (EEAI) LC, Vol. 8, No. 12, Dec. 1959
Uncl.

TAKKELLA, I.P.

Intraarterial blood transfusion in terminal conditions. Khirurgiia, Moskva no.5:38-40 May 1953. (CIML 25:1)

1. Orsha.

[redacted]

[redacted]

[redacted]

TAKKELA, I.P.

Extent of resection in cancer of the stomach. Zdrav.Kazakh. 16 no.9: 35-38 '56. (MLRA 10:1)

1. Glavnyy khirurg Pavlodarskogo oblzdravotdela.
(STOMACH--SURGERY)

TAKKELLA, I.P. (Pavlodar (Oblastnoy), ul. Rozy Lyuksemburg, d.28)

Case of rupture of the thoracic duct followed by rupture of the liver. Nov.khir. arkh. no.1:71-72 Ja-F '57. (MLRA 10:6)

1. Khirurgicheskoye otdeleniye (zav. - prof. I.P.Takkella) Pavlodarskoy oblastnoy bol'nitsy.
(LIVER--WOUNDS AND INJURIES)
(THORACIC DUCT--WOUNDS AND INJURIES)

TAKKOLA, I.P., kand.med.nauk

A case of almost total resection of the small intestine.
Zdrav.Kazakh. 17 no.12:53-55 '57. (MIRA 12:6)

1. Glavnyy khirurg Pavlodarskogo oblzdravotdela.
(INTESTINES--SURGERY)

TAKKELLA, I.P. (Kazakhskaya SSR, Pavlodar, ul. Rozy Lyuksemburg, d.28).

Case of extremely extensive resection of the small intestine. Nov.khir.arkh. no.1:115-116 Ja-F '59. (MIRA 12:6)

1. Khirurgicheskoye otdeleniye Pavlodarskoy oblastnoy bol'nitsy Kaz.SSR.

(INTESTINES--SURGERY)

TAKKELLA, I.P., kand.meditsinskikh nauk

Peculiar diverticulum of the jejunum and intestinal obturation.
Zdrav. Belor. 6 no.6:73-74 Je '60. (MIRA 13:8)

1. Iz khirurgicheskogo otdeleniya Orshanskoy mezhrayonnoy bol'nitsy (glavnyy vrach N.P. Monakov).
(JEJUNUM--DISEASES) (INTESTINES--OBSTRUCTIONS)

TAKKING, L.R.; SHCHEGOLEVA, N.P.

Electric conductivity of lithium and lithium potassium borox glasses. Uch.zap.Len.un. no.108:17-32 '49. (MLRA 10:3)
(Glass--Electric properties)

TAKKING, L.R.

Coagulation of [transformer-oil] emulsions. S. B. Kharin and L. R. Takking. *Trudy Odess. Tekhnol. Inst. Pishchevoi i Kholodil. Prom.* 6, 3–15(1955).—The rate of coagulation of transformer-oil emulsions in aq. EtOH was studied by means of a horizontal universal photometer. The radius, r, of the particles involved in the coagulation process was estd. from the curve of Smirnov, *et al.* (*C.A.* 30, 7902⁷). The no. of particles, n, per ml. at any time, t, was obtained from the tangents drawn to the curve; $n = f(t)$ ($n = 3C/4\pi r^3 d$, where C is the concn. of the oil in the emulsion, 0.64×10^{-3} g./l. and d is 0.8804 g./ml. at 18°; for r 65 mμ, n is 66.2×10^9/ml.). The rate of coagulation, $V = an^2 s^{-A}$, was obtained from $A = f(r)/kT = 23 (\log a + 2 \log n - \log V)$, where $n = 4kT/3\eta$ and k is Boltzmann's const. During the first few min., r increased rapidly and n decreased, then the rate decreased and finally was hardly perceptible during a period of several days. The initial rate was lower in more concd. emulsions. No oil sepd. during coagulation so that the process consisted actually in the transformation of one stable emulsion into another one with larger r. The min. concn. of electrolytes necessary to initiate coagulation was NaCl $1.5 \times 10^{-2} N$, $CaCl_2$ $2.5 \times 10^{-3} N$, and $AlCl_3$ $10^{-4} N$.

I. B.

[illegible], I.K., [illegible] Sci--([illegible]) "[illegible] of [illegible]."

[illegible], 1 [illegible]. 16 [illegible] ([illegible] of Higher [illegible] USSR. [illegible] to [illegible]

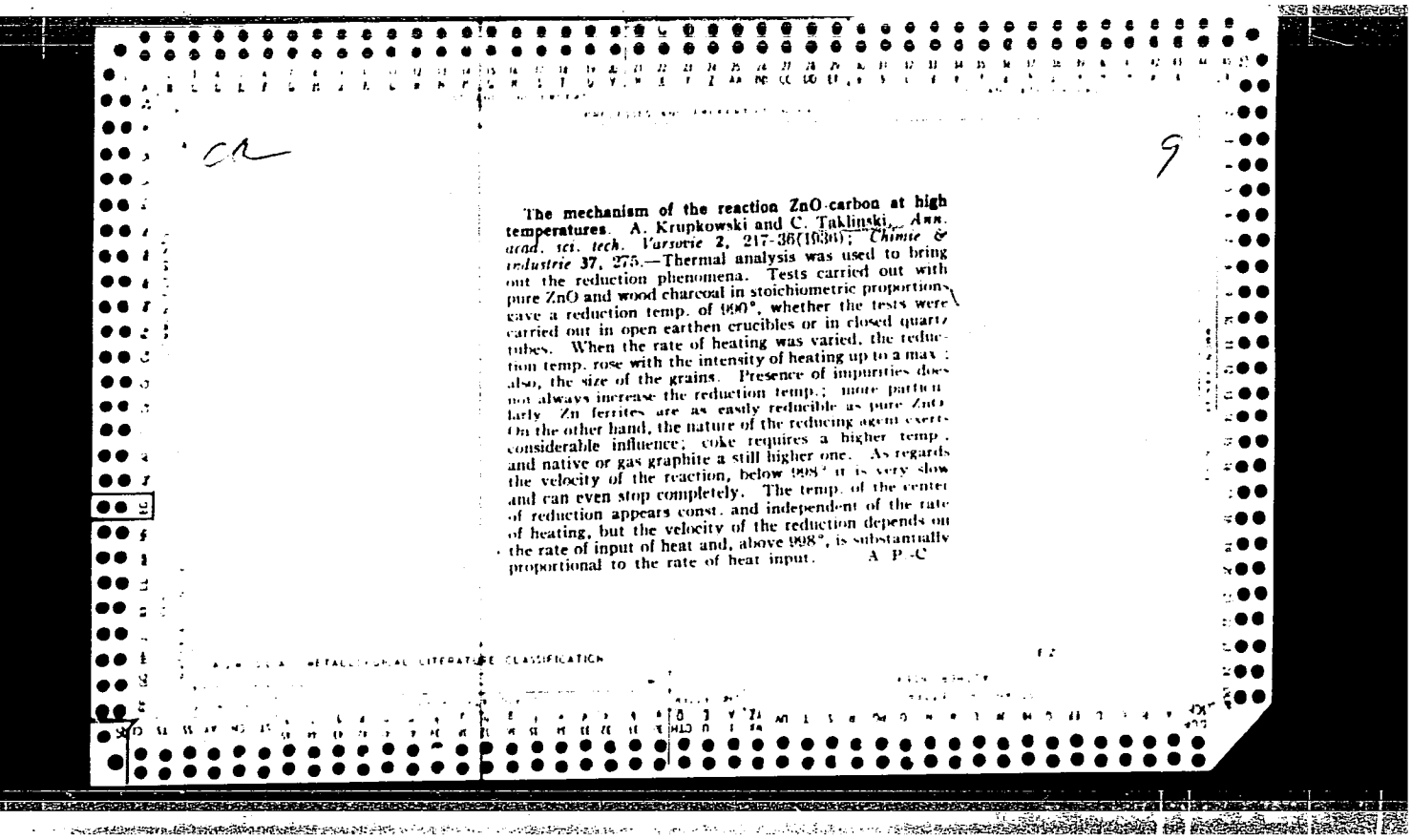
I.I. [illegible]), 100 copies (KL,26-5[illegible],100)

BOTVIN, V.A.; TAKIVAYEV, Zh.S., akademik; USIK, P.A.

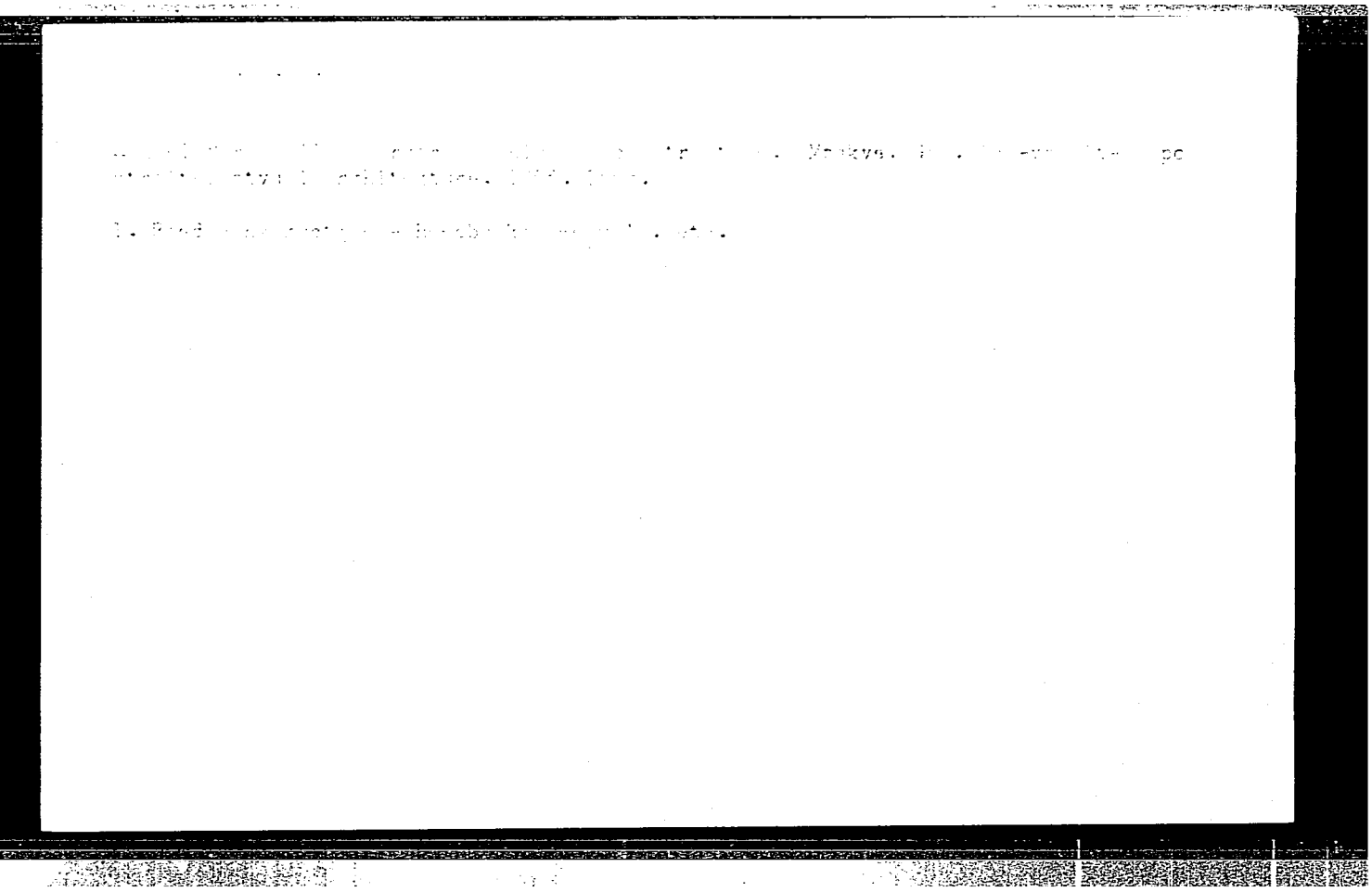
Inelastic pn-interactions at an energy of 9 Bev.
Dokl. AN SSSR 146 no.4:785-788 O '62. (MIRA 15:11)

1. Institut yadernoy fiziki AN KazSSR. 2. AN KazSSR (for Takibayev).

(Nuclear reactions)
(Mesons) (Protons)



The mechanism of the reaction ZnO-carbon at high temperatures. A. Krupkowski and C. Taklinski, *Ann. acad. sci. tech. Varsovie* **2**, 217-36(1936); *Chimie & industrie* **37**, 275.—Thermal analysis was used to bring out the reduction phenomena. Tests carried out with pure ZnO and wood charcoal in stoichiometric proportions gave a reduction temp. of 990°, whether the tests were carried out in open earthen crucibles or in closed quartz tubes. When the rate of heating was varied, the reduction temp. rose with the intensity of heating up to a max.; also, the size of the grains. Presence of impurities does not always increase the reduction temp.; more particularly Zn ferrites are as easily reducible as pure ZnO. On the other hand, the nature of the reducing agent exerts considerable influence; coke requires a higher temp., and native or gas graphite a still higher one. As regards the velocity of the reaction, below 998° it is very slow and can even stop completely. The temp. of the center of reduction appears const. and independent of the rate of heating, but the velocity of the reduction depends on the rate of input of heat and, above 998°, is substantially proportional to the rate of heat input. A. P.-C.



TAKMAN, I.; SESLAV[illegible] N.N. [translator].

Notes on Linné. Bot.zhur. 42 no.10:1536-1544 O '57. (MIRA 10:10)
(Linne, Carl von, 1707-1778)

BABAYAN, A.T., TAKMAZYAN, K.TS.; AMANYAN, M.S.

Aqueous alkali cleavage of 1,5-diammonium salts containing a multiple bond in the 2,3-position of the common group. Dokl. AN Arm. SSR 38 no.3:157-162 '64. (MIRA 17:6)

BABAYAN, A.T.; TAKMAZYAN, K.TS.; ANANYAN, E.S.

Amines and ammonium compounds. Part 28: Alkaline decomposition of 1,5-di-(trialkyl ammonium)-2-pentenes. Izv. AN Arm. SSR. Khim. nauki 18 no.3:262-268 '65. (MIRA 18:11)

1. Institut organicheskoy khimii AN ArmSSR. Submitted July 21, 1864.

PRONAI, G.; TAKO, J.; JAKI, G.

Phaeochromocytoma. Orv.hetil. 91 no.18:545-550 30 Ap '50.
(CLML 19:2)

1. Clinic for the Diagnosis of Internal Diseases (Director -- Dr. Bela Purjesz) and the Surgical Clinic (Director -- Dr. Gyula Jaki), both of Szeged University.

TAKO, Jozsef, dr., miniszterhelyettes

We open the door to knowledge. Gyogyszeresz 10 no.2:21-22 Feb 55.

(PHARMACY,
in Hungary)

ROSA, Laszlo, dr.; TAKO, Jozsef, dr.; ZAKARIAS, Imre.

Q-T interval and heart sound microphone in simultaneous determination of the duration of systole. Orv. hetil. 96 no.7:195 13 Feb 55

1. A tatabanyai Megyei Korhaz (igazgato-foorvos: Ksbdebo Jozef dr.) es a Nephadsereg Egeszegugyi Szolgalatanak kozlemenye.

(ELECTROCARDIOGRAPHY,
Q-t interval, determ. of duration of systole, with phonocardiography)
(CARDIAC MURMURS AND SOUNDS,
phonocardiography of duration of systole, with ECG)

TAKO, Jozsef, dr.

Duties of the leading hygienic institutes in the scientific direction of public-health - sanitary centers. Nepegeszsegugy 37 no.4:97-99 Apr 56.

(PUBLIC HEALTH
in Hungary, sanitary-epidemiol. centers, role of higher hygienic institutes in supervision & direction (Hun))
(HYGIENE
in Hungary, role of higher hygienic institutes in supervision & direction of sanitary-epidemiol. centers (Hun))

RADO, Janos, dr.; TAKO, Jozsef, dr.; GEDER, Laszlo, dr.; JENEY, Eniko, dr.; Munkatars: GOSCHL, Irma.

Group occurance of herpes zoster in patients treated with corticosteroids. Orv. hetil. 105 no.27:1266-1270 5 Jl'64

1. Budapesti Janos Korhaz, Izotop (V.Bel.) Osztaly es Debreceni Orvostudomanyi Egyetem, Mikrobiologiai Intezet.

TAKO, Jozsef, dr.; RADO, Janos, dr.

Generalized herpes zoster complicated by meningitis in a patient treated with corticosteroids. Orv. hetil. 105 no.27:1271-1273 5 Jl'64

1. Budapesti Janos Korhaz, Izotop (V. Bel.) Osztaly.

RÁB, Jaros, dr.; TAK, Josef, dr.; MIKL, V., Gyorgy dr.

Chromophobe pituitary adenoma associated with Cushing's syndrome. Orv. hetil. 106 no.5:223-226 31 Ja '65

1. Forensic Janos Korhaz. Tecsoy (V.Bel.) Partially as Prosectura.

TAKO, Jozsef, dr.; NAGY, Janos, dr., munkatars: SZANTO, Ervinne, dr.

Changes in the "functional reserve capacity" of the pituitary gland and the adrenal cortex under the effect of antithyroid therapy. Orv. hetil. 106 no.35:1646-1650 29 Ag '65.

1. Fovarosi Janos Korhaz, Izotop (V. Bel.) Osztaly.

TAKOBEEV, Zh. S.

POR, F.; TAKAC, M.; GOMBOS, B.; ROZLOZNIK, J.; BENICKY, L.; TAKOCOVA, M.

Ventilation and hemodynamic indices in acute and chronic silicosis. Bratisl. lek. listy 43 no.4:219-225 '63.

1. Interna klinika Lek. fak. Univ. P.J. Safarika v Kosiciach, veduci prof. MUDr. F. Por, a oddelenie pre choroby z povolania pri Internej klinike Lek. fak. Univ. P.J. Safarika, veduci-ordinar MUDr. B. Gombos.
(SILICOSIS) (RESPIRATORY FUNCTION TESTS)
(THORACIC RADIOGRAPHY) (PULMONARY CIRCULATION)
(ELECTROCARDIOGRAPHY) (BALLISTOCARDIOGRAPHY)

TAKOPULO, D.; TSYRLIN, L.

A valuable and much needed book ("Technical inventory and appraisal of buildings" by V.G.Petropavlovskii. Reviewed by D.Takopulo, L.TSyrlin). Zhil.-kom.khoz. 9 no.11:34 '59. (MIRA 13:2)

1. Starshiy inzhener Byuro tekhnicheskoy inventarizatsii g.Minska (for Takopulo). 2. Nachal'nik Baranovichskogo mezhdugorodskogo byuro tekhnicheskoy inventarizatsii (for TSyrlin).
(Real property--Valuation)
(Petropavlovskii, V.G.)

TAKOV, A., inzh.; MARKOV, L., inzh.; BRUNKIN, K., geol.

Interdependence of the ash content and the volume and specific weight of the coal from the Marishki Basin State Mining Enterprise. Min delo 17 no.9:9-12 S '62.

1. Durzhavno minno predriiatie "Marishki basein".

TAKOV, B.

With untold energy. p. 18.

Vol. 10, no. 9, Sept. 1955
KOOPERATIVNO ZEMEDELIE
Sofiya, Bulgaria

So: Eastern European Accession Vol. 5 No. 1 Jan. 1956

SIVCHEV, S.; VELIZAROV, A.; PELOVA, N.; PETRINSKA, S.; UZUNOV, P.; TAKOV, R. VULKOV, Iv.

Pathomorphology in the influenza epidemic of 1959. Suvrem med., Sofia no.7:61-67 '61.

1. Katedra po patologichna anatomiia pri Visshiia meditsinski institut, Sofia. Rukov. na katedrata prof. B. Kurdzhiev.

(INFLUENZA pathol)

MIKHAILOV, G.; TAKOV, R.

The incidence of tumors in childhood. Nauch. tr. vissh. med. inst. Sofia 41 no.1:17-33 '62.

1. Predstavena ot prof. B. Kurdzhiev.
(NEOPLASMS)

ATANASOV, N.; PETRINSKA, S.; TAKOV, R.

Morphological changes in the pelvic and pyelo-ureteral segment of the kidney in hydronephrosis. Khirurgiia (Sofiia) 16 no.4: 341-345 '63.

1. Visshi meditsinski institut - Sofiia, katedra po khirurgichni zaboliavaniia s urologiia. Rukovoditel na katedrata: prof. G. Popov. Katedra po patologichna anatomiia. Rukovoditel na katedrata: prof. B. Kurdzhiev.
(HYDRONEPHROSIS) (PATHOLOGY)

TAKOV, R.

A case of perforation of the small intestine in periarteritis nodosa in a child. Khirurgiia (Sofiia) 16 no.5:481-485 '63.

1. Iz Katedrata po patologichna anatomiia pri VMI [Vissh meditsinski institut] - Sofiia.
(INTESTINE, SMALL) (PERIARTERITIS NODOSA)
(SURGERY, OPERATIVE) (INTESTINAL PERFORATION)

MIKHAILOV, G.; TAKOV, R.

On the distribution of pigmented tumors in biopsy material of the Department of Pathological Anatomy of the Higher Medical Institute — Sofia. Nauch tr. vissh. med. inst. Sofiia 42 no.1:11-21 '63.

1. Predstavena ot prof. d-r B. Kirdzhiev.
(MELANOMA) (STATISTICS) (BIOPSY)
(PATHOLOGY)

PALAVEEV, T.; KHRISTOVA, El.; DINCHEV, D.; TAKOVA, T.; BIKS, St.

Introduction of boron fertilization in Bulgaria. Izv Inst "Nikola Pushkarov" 4:89-131 '62.

RUSAKOVA, A., nauchnyy sotrudnik; KORENEVA, N., nauchnyy sotrudnik; SOKOLOV, G., inzh. (Kuybyshev); TAKOVITSKIY, A., izobretatel' (Moskva); BABKIN, A., master (Nizhniy Tagil)

Suggested, created, introduced. Izobr.i rats. no.5:40-3 of cover My '62. (MIRA 15:5)

1. TSentral'nyy nauchno-issledovatel'skiy institut tary i upakovki, Kaluga (for Rusakova, Koreneva).
(Technological innovations)

PETROV, Aleksey Aleksandrovich, kand.khim.nauk; TAKOYEV, D.A., red.; PETROPOL'SKAYA, N.Ye., red.; YASHEN'KINA, Ye.A., tekhn.red.

[Desalting and dehydration of petroleums] Obessolivanie i obezvozhivanie neftei. Kuibyshev, Kuibyshevskoe knizhnoe izd-vo, 1959. 82 p. (MIRA 13:2)
(Petroleum--Refining)

TAKOYEV, Dzandar Avsimaykhovich; IVANOV, Aleksey Ivanovich; MIKHEYEV, N.I., red.; YASHEN'KINA, Ye.A., tekhn.red.

[Volga petroleum] Volzhskaia neft'. Kuibyshev, Kuibyshevskoe knizhnoe izd-vo, 1960. 95 p. (MIRA 14:4)

(Volga Valley--Petroleum industry)

TAKOYEV, K.

10G58

USSR/Radio Stations 4805.0200 Aug 1947

"Communications Workers Are Conductors of Culture in Rural Settlements," K. Takoyev, 2 pp

"Vestnik Svyazi - Pochta" Vol VII, No 8

Praise of work done in Stolbtsov Rayon of Baranovichi Oblast' of Belorussian SSR. There are 290 km of electric wiring in this rayon. In Jan 1946 there were 200 radio centers and by Jan 1947 there were 570 radio centers in Stolbtsov Rayon with plan for 300 more by end of 1947. 120 radio centers established here during first five months of 1947.

LC

10G58

TAKOYEV, K.

PA 52T98

USSR/Radio Receivers Dec 1947
Radio Operation

"Work Week of Tadzhik SSR Communicators," K. Takoyev, Tadzhik SSR, 4 pp

"Vestnik Svyazi - Pochta" No 12

Describes briefly operation of a radio set established at a farm imeni Kaganovich, and discusses its importance in the social and political life of workers at this farm. Explains operations in presenting nightly broadcasts to the people at the farm, and gives brief historical description of development of radio and broadcasting in Tadzhik SSR.

FDB 52T98

USSR/Telephone Lines Jan 1947
Telephones - Operation

"Technique of Serving Communities by Inter-city Telephones," K. F. Takoyev, 1½ pp

"Vestnik Svyazi - Elektrosvyaz'" No 1 (82)

The inhabitants of Kuybyshev have the best inter-city telephone equipment, but are troubled by the rude and uncooperative public servants who operate this station. The author cites several examples of the ill feeling resulting from this and recommends that it be remedied as soon as possible. He emphasizes the fact that the Kuybyshev Inter-city Telephone Station is there, not only to fill the needs of large industries and governmental agencies, but primarily to serve the people of Kuybyshev and the surrounding area.

FDB 27T99

TAKOYEV, K. F.

USSR/Radio - Communications Receivers

May 51

"A Talented Inventor (Viktor Semenovich Mel'-nikov)," K. F. Takoyev

"Radio" No 5, p 24

Mel'nikov, 1950 Stalin Prize winner, specializes in trunk-line radio communications. Studied at Acad of Communications imeni Podbel'skiy, Moscow. After graduation (1939), worked in Sci Res Inst [of Communications?]. Has taught for many years in Chair of Receiving Equipment, Moscow Elec Eng Inst of Communications. Also active in All-Union Sci and Tech Soc of Radio Eng and Elec Communications, where he directs Receiver Sec.

182T105

TAKOYV. K.

Postal Service

Distribution of publications is an honorable duty of Soviet communication workers., Sov. sviaz., no.8, 1951.

Monthly List of Russian Accessions, Library of Congress, March 1952. UNCLASSIFIED

TAKOYEV, K.

USSR/Radio - Radiofication Dec 51

"Problems of Rural Radiofication," K. Takoyev

"Radio" No 12, pp 6-8

At the beginning of 1951, 88% of the kolkhozes in Moscow Oblast had been radiofied and all towns and villages had been completely radiofied in 34 regions of the oblast. One of the main problems now is to use all the available power of wired radio centers.

208T79

. TAKOYEV,-.

. (-00)

4. [illegible]

7. Innovator. [illegible] no. 11. '52.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

PAKOYEV, K.

Radio

Evdokiia Azarkova, chief of shift. Radio No. 3, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

USSR/ Miscellaneous - Radio technicians

Card 1/1 Pub. 89 - 10/31

Authors : Takoyev, K.

Title : Efficient workers

Periodical : Radio 11, 16-17, Nov 1954

Abstract : The team work of a group of antenna installation specialists, headed by J. M. Zukov and connected with one of the Moscow radio centers, is described. This antenna group was entrusted with a number of responsible tasks, the last one being the organization of experimental work on the new electromagnetic-wave antenna installed by the Moscow Research Institute. The method of Zhukov's work is extold, and information is given on a number of improvements, introduced by Zhukov's group, designed to increase the life of the antenna. Illustration.

Institution : ...

Submitted : ...

TAKOYEV, K.

Women of the Moscow Television Center. Radio no.3:5-6 Mr '58.
(Moscow--Television) (MIRA 11:3)

SOV/107-58-12-8/55

6(4)

AUTHOR: Takoyev, K.

TITLE: The Communications Workers Are Competing (Sorevnuyutsya svyazisty)

PERIODICAL: Radio, 1958, Nr 12, p 7 (USSR)

ABSTRACT: The workers of the Moskovskaya gorodskaya radiotranslyatsionnaya set' (MGRS) (Moscow City a-f Rediffusion Net), and its counterpart in Kiyev have initiated a socialist competition in honor of the 21st Party Conference. Workers in Radio-communications, radio broadcasting, television and radiofication are to take part. The article describes the tasks that teams of communications workers in the USSR have promised to accomplish in connection with this competition. For example, the MGRS workers have pledged themselves to install high-quality public broadcasting equipment in the new dwellings being built in Moscow; their

Card 1/2

SOV/107-58-12-8/55

The Communications Workers Are Competing

Kiyev competitors have taken it upon themselves to complete the yearly planned increase before schedule and install at least 1800 extra public broadcast units.

Card 2/2

TAKOYEV, K.F.

Centennial of the Russian postage stamp. [illegible] no.1: 35-36 Ja '58. (MIRA 11:1)

(Postage stamps)

TASK-V KF

ACHARKAN, V.A.; BARSKOV, I.M.; BIRYUKOV, I.S.; BORODINA, L.Ya.; BRENNER, M.M.; GORELIK, B.Ye.; GUMEROV, M.N.; ZORKAYA, N.M.; IOYRYSH, A.I.; KAYDALOVA, O.N.; KAPUSTIN, Ye.I.; LEBEDEVA, M.A.; LESHKOVTSEV, V.A.; LYSENKO, V.P.; MARKIN, A.B.; MIKHAYLOV, N.N.; NEST'YEV, I.V.; NECHAYEV, N.V.; NIKOL'SKIY, A.V.; OSTROUKHOV, M.Ya.; PISARZHEVSKIY, O.N.; POLUBOYARINOV, M.M.; POPOV, Yu.N.; PRASOLOV, M.A.; POKATAYEV, Yu.N.; RIMBERG, A.M.; RYABOV, V.S.; SEMKOV, B.F.; SPERANSKAYA, Ye.A.; TAKOYEV, K.F.; TRIFONOVA, G.K.; TROFIMOVA, V.I.; SHAKHNAZAROV, G.Kh.; SHKARENKOVA, G.P.; SHMERLING, K.G.; EYDEL'MAN, B.I.; MIKAELYAN, E.A., red.; MUKHIN, Yu.A., tekhn.red.

[U.S.S.R. as it is; a popular illustrated handbook] SSSR kak on est'; populiarnyi illiustrirovannyi spravochnik. Moskva, Gos.izd-vo polit. lit-ry, 1959. 462 p. (MIRA 12:2)

(Russia)

KLIMOV, Yu.M.; CHIKIN, V.V.; ANISIMOV, N.I.; BARSKOV, I.M.; VINOGRADOV, Yu.V.; GAVRILOV, A.N.; GAUKHMAN, L.A.; GOLOV, A.P.; GOL'DMAN, L.S.; GREBENNIKOV, G.I.; YEFIMOV, A.N.; ZALUTSKIY, M.S.; ZAYTSEVA, A.V.; OIYRYSH, A.I.; KANDARITSKIY, V.S.; KAPRANOV, I.A.; KOVALEV, N.I.; KOVALEVSKIY, K.A.; KOLOSOV, A.F.; KRIVOV, A.S.; KRYLOV, R.M.; LEVITAS, A.G.; MALYGIN, M.A.; MORALEVICH, Yu.A.; MOTYLEV, A.S.; NESTEROV, M.V.; NIKOL'SKIY, A.V.; ORLOV, G.M.; ORLOV, Ya.L.; PARENSKIY, V.M.; POLYAKOV, A.S.; RUBIN, V.I.; SVANIDZE, K.N.; STRIGIN, I.A.; TAKOYEV, K.F.; TRUBNIKOV, S.V.; CHERNYSHEVA, L.N.; CHESNOKOV, N.Ye.; SHAMBERG, V.M.; STRUMILIN, S.G., akademik, red.; ANTOSENKOVA, L., red.; MIKAELYAN, E., red.; MUKHIN, Yu., tekhn.red.

[Dictionary of the seven-year plan from A to Z] Slovar' semiletki ot A do IA. Moskva, Gos.izd-vo polit.lit-ry, 1960. 397 p. (MIRA 13:7)

(Russia--Economic policy)

RASIN, Boris Isaakovich; LAVROV, R.A., otv. red.; TAKOYEV, K.F., red.; MARKOCH, K.G., tekhn. red.

[V.N.Podbel'skii a talented organizer of Soviet telecommunication]Talantlivyi organizator sotsialisticheskoi sviazi V.N.Podbel'skii. Moskva, Sviaz'izdat, 1962. 126 p. (MIRA 16:3)

(Telecommunication)
(Podbel'skii, Vadim Nikolaevich, 1887-1920)

TAKOYEV, T. K., Cand of Agric Sci -- (diss) "Agrotechnical research on machine of complex mechanization of corn in North Osetian ASSR." Ordzhonikidze, 1957, 25 pp (North Osetian Agricultural Institute), ~~ex~~ 100 copies (KL, 32-57, 95)

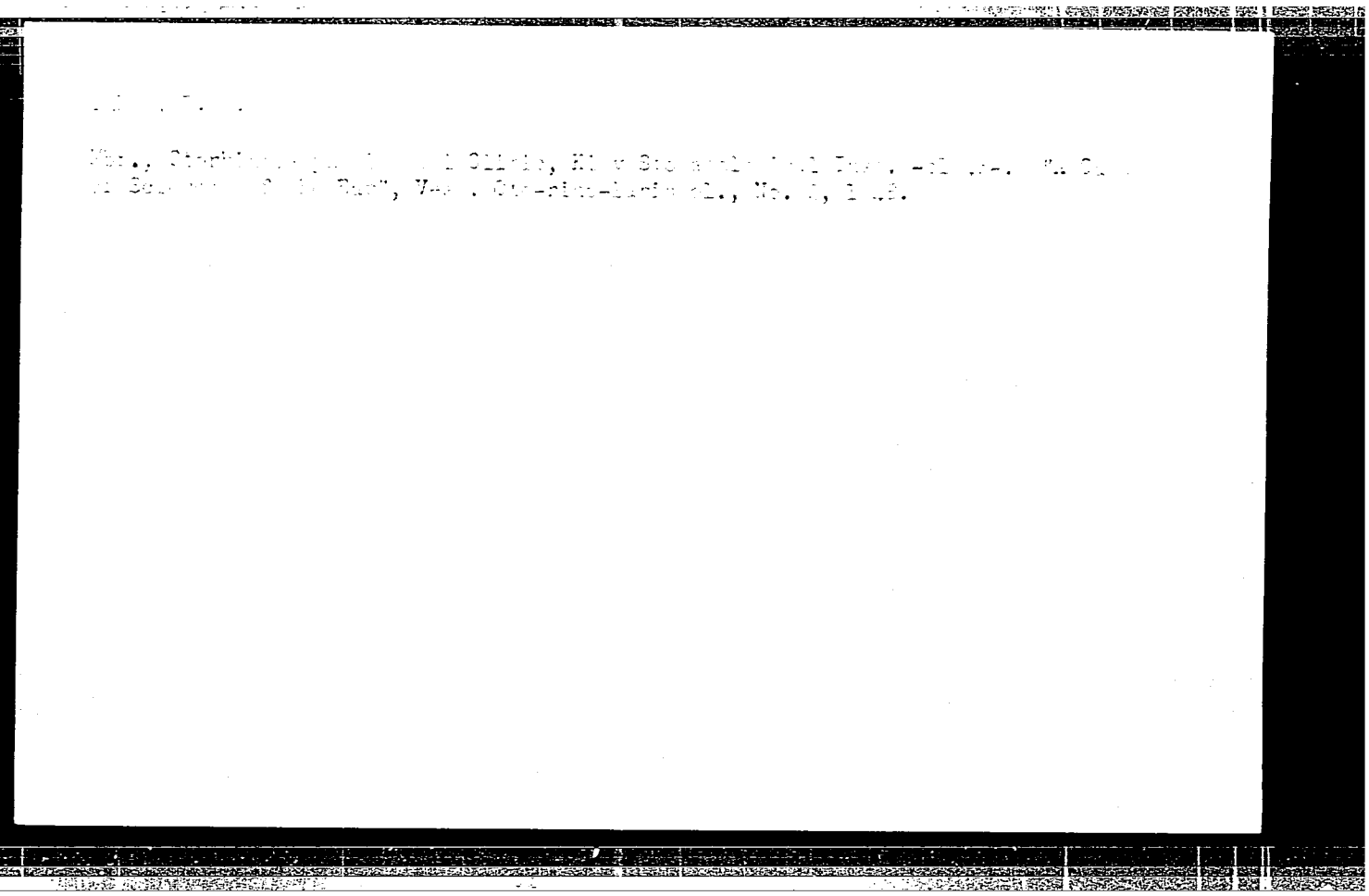
TAKPIL'SKAYA, N.V.

Nature of the relationship between soil protozoans and the fungus Verticillium dahliae causing cotton wilt. Vop. biol. i kraev. med. no.4:107-112 '63. (MIRA 17:2)

TAKRANOV, R.A., inzh.

Equally spaced network of points in circular graphs of fracturing. Izv. vys. ucheb. zav.; gor. zhur. no.6:46-52 '60. (MIRA 14:5)

1. Leningradskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni gornyy institut imeni G.V.Plekhanova. Rekomendovana kafedroy marksheyderskogo dela.
(Mining geology) (Mine surveying)



[redacted], ... N.

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TITLE: Effect of pressure on the spectral distribution of the photoeffect in InSb

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TOPIC TAGS: indium compound, antimonide, pressure effect, photoeffect, spectral distribution, pn junction, forbidden band

ABSTRACT: Inasmuch as earlier investigations of the pressure effect on indium antimonide were limited to electric measurements, the authors have investigated the spectral sensitivity of indium antimonide under static pressure by photoelectric means. The pressure ranged from zero 8,000 kg/cm^2. The temperature was 96K. The samples were cubes measuring 1 x 1 x mm. A p-n junction was placed on the irradi-

Card 1/2

ated surface, parallel to it, at a depth 10--20 μ, which was irradiated through the hole region in which the free-hole density was $P \leq 1 \times 10^{15}$ cm^{-3}. The electronic part had a density $n = 1.2 \times 10^{15}$ cm^{-3}. The spectral characteristics were measured with a spectrograph (ZMR-2). The values of the 'red boundary' as a function of the pressure are listed for certain fixed pressure, as well as the corresponding widths of the forbidden band. The variation of the widths of the forbidden band with the static pressure was found to be independent of the pressure at an average value 14.8×10^{-6} ev/atm. This agrees well with results obtained by electric measurements. The gap itself increases linearly with the applied pressure. The photoresponse has the same wavelength dependence for all pressures. It is concluded that pressure makes transitions to the lowest levels in indium antimonide forbidden, i.e., the pressure influences primarily the levels with minimum energies, and the bands at higher energies change little in the investigated pressure range. Authors thank D. N. Nasledov and B. T. Kolomiyets for interest in the work. Orig. art. has: 1 figure and 1 table.

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The equation between two nucleons is taken in the form $\{-E + \alpha^{I}p^{I} + \alpha^{II}p^{II} + (\rho_3^{I} + \rho_3^{II})E_0 + U\}\psi = 0$ where α, ρ_3 are Dirac matrices, E_0 is the nucleon rest mass energy and the superscripts I and II refer to the two different nucleons. Various forms of U, a three-dimensional potential (although possibly velocity dependent) are considered, as suggested by various meson theories. Angle variables are eliminated from the equations, which are then separated into two groups describing states which become singlet and triplet states in the non-relativistic limit. The radial equations so obtained are discussed, and conditions for regular solutions are given in detail. No application of these equations is made in this paper.

O. E. BROWN